

## ANSF-4271-2023

**Table S1.** COVID-19 affected cases per day in Delhi during Jan-Feb 2021 (P1) and March-20 May (P2).

Statistics	No. of cases per day	
	(P1)	(P2)
No. of observations	59	81
Minimum	94.00	175.00
Maximum	654.00	28395.00
Range	560.00	28220.00
1st Quartile	141.00	823.00
Median	185.00	5100.00
3rd Quartile	297.00	19133.00
Mean	235.93	9514.33
Mean absolute deviation	105.74	8495.78

Note: Jan-Feb 2021 (P1) and March-20 May (P2)

**Table S2.** Descriptive statistics (Quantitative data) from all 6 monitoring stations of Delhi during Jan-Feb 2021 (P1) and March-20 May 2021 (P2)

MT1- Jahangirpuri (North)												
Statistics	PM <sub>2.5</sub>		PM <sub>10</sub>		NO <sub>2</sub>		SO <sub>2</sub>		CO		O <sub>3</sub>	
	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2
No. of observations	59	81	59	81	59	81	59	81	59	81	59	81
Minimum	83.54	14.00	111.25	18.00	27.44	6.35	5.63	6.18	0.89	0.45	6.27	5.13
Maximum	541.68	250.14	620.50	454.49	104.69	68.56	35.12	37.00	3.89	1.99	20.01	82.09
Range	458.14	236.14	509.25	436.49	77.25	62.21	29.49	30.82	3.00	1.54	13.74	76.96
1st Quartile	184.01	68.28	298.80	195.17	45.30	26.99	7.22	8.60	1.43	0.77	7.29	8.52
Median	243.82	93.90	374.73	265.27	58.83	37.93	8.42	15.82	1.80	0.89	10.84	41.13
3rd Quartile	275.46	128.50	442.86	324.86	71.78	50.14	11.35	23.17	2.24	1.03	13.50	51.72
Mean	241.18	99.88	376.07	262.30	59.28	39.55	9.86	17.22	1.87	0.94	10.78	36.35
Variance (n)	8440.17	1904.01	12328.33	8307.70	329.13	187.18	25.02	69.74	0.34	0.09	11.31	459.71
Standard deviation (n)	91.87	43.63	111.03	91.15	18.14	13.68	5.00	8.35	0.58	0.29	3.36	21.44
Mean absolute deviation	66.97	33.32	89.71	71.38	15.05	11.67	2.95	6.98	0.47	0.21	2.86	18.42
MT2- Patparganj (East)												
Minimum	63.54	25.75	98.24	44.29	18.37	4.15	2.16	1.42	0.68	0.3	6.34	5.84
Maximum	480.63	192	579.58	351.67	55.07	49.31	15	18.72	3.34	2.36	22.5	25.97
Range	417.09	166.25	481.34	307.38	36.7	45.16	12.8	17.3	2.66	2.06	16.16	20.13
1st Quartile	145.72	59.76	222.43	130.3	26.52	18.1	5.3	3.33	1.1	0.53	8.73	11.13
Median	189.06	72.84	274.59	176.14	35.93	25.2	7.5	4.45	1.48	0.82	11.25	14.38
3rd Quartile	238.35	101.06	343.21	227.95	39.1	31	9.92	5.8	1.93	0.99	14.49	17.75
Mean	204.18	81.93	288.35	187.87	34.19	24.87	7.63	4.9	1.6	0.82	11.82	14.66
Variance (n)	7028.38	1099.84	9323.62	5160.61	77.75	90.04	9.12	6.75	0.35	0.13	13.89	25.46
Standard deviation (n)	83.84	33.16	96.56	71.84	8.82	9.49	3.02	2.6	0.59	0.36	3.73	5.05
Mean absolute deviation	61.84	26.02	75.06	58.43	7.46	7.55	2.53	1.78	0.48	0.27	3.1	4.09

<b>MT3- Jawahar Lal Nehru Stadium (Central)</b>												
Minimum	55.54	20.51	93.18	43.28	23.61	23.88	12.43	9.35	0.54	0.27	7.61	5.39
Maximum	432.99	143.32	556.18	395.75	95.59	92.07	29.00	35.61	4.77	3.21	48.95	85.94
Range	377.45	122.81	463.00	352.47	71.98	68.19	16.57	26.26	4.23	2.94	41.34	80.55
1st Quartile	123.13	47.23	212.32	135.57	51.15	35.85	17.10	16.45	1.14	0.51	23.50	29.16
Median	153.36	60.45	265.60	187.91	64.06	50.12	19.07	21.76	1.60	0.76	32.68	38.81
3rd Quartile	202.95	83.12	313.34	248.56	80.08	65.01	21.99	26.37	2.32	1.19	36.16	49.68
Mean	170.93	66.13	271.80	194.19	63.16	51.18	19.46	21.91	1.80	0.87	30.26	39.78
Variance (n)	6319.28	723.18	8590.97	5703.94	325.92	299.64	13.46	37.14	0.71	0.22	90.06	223.98
Standard deviation (n)	79.49	26.89	92.69	75.52	18.05	17.31	3.67	6.09	0.84	0.47	9.49	14.97
Mean absolute deviation	56.26	21.70	66.08	61.48	15.17	14.79	2.91	5.03	0.68	0.36	7.72	12.04
<b>MT6- Major Dhyan Chand National Stadium (Central)</b>												
Minimum	57.89	7.00	96.29	9.00	19.48	4.30	5.62	4.65	0.55	0.36	1.67	11.49
Maximum	407.25	141.93	549.73	354.56	98.83	54.81	25.71	11.24	2.74	2.45	48.11	52.66
Range	349.36	134.93	453.44	345.56	79.35	50.51	20.09	6.59	2.19	2.09	46.44	41.17
1st Quartile	123.45	47.74	212.59	135.70	33.92	22.50	7.14	6.51	0.89	0.63	20.49	26.16
Median	151.57	59.76	269.26	188.22	40.59	30.47	16.45	7.30	1.19	0.73	25.56	32.16
3rd Quartile	201.80	85.17	333.71	242.35	53.84	35.87	18.68	8.06	1.59	0.99	32.41	36.48
Mean	168.66	66.67	278.07	193.17	46.18	29.71	14.47	7.40	1.31	0.82	25.80	31.83
Variance (n)	5986.31	773.85	8738.32	5354.76	291.84	98.66	31.65	1.35	0.29	0.08	102.02	78.44
Standard deviation (n)	77.37	27.82	93.48	73.18	17.08	9.93	5.63	1.16	0.54	0.29	10.10	8.86
Mean absolute deviation	55.77	22.89	70.37	59.22	13.23	8.01	4.94	0.89	0.43	0.21	7.87	7.05
<b>MT4- Siri fort (South)</b>												
Minimum	63.57	9.00	94.19	20.00	17.49	10.01	1.67	0.65	0.35	0.23	15.67	40.21
Maximum	436.62	138.59	621.47	437.41	162.37	102.63	15.02	9.91	5.00	3.10	85.30	111.01
Range	373.05	129.59	527.28	417.41	144.88	92.62	13.35	9.26	4.65	2.87	69.63	70.80
1st Quartile	121.03	47.14	234.31	160.87	37.61	18.79	5.19	3.05	1.44	0.45	47.56	59.50
Median	159.93	64.50	284.17	200.71	55.12	24.45	9.58	5.20	2.32	0.88	52.15	69.98
3rd Quartile	193.33	91.15	333.33	291.65	89.33	30.83	12.18	6.14	3.06	1.29	61.21	84.69
Mean	171.47	70.16	290.76	216.06	67.64	26.06	8.78	4.77	2.36	0.95	52.14	72.67
Variance (n)	5587.73	821.23	9844.42	7699.82	1225.18	161.83	15.65	3.71	1.25	0.30	176.29	316.05
Standard deviation (n)	74.75	28.66	99.22	87.75	35.00	12.72	3.96	1.93	1.12	0.55	13.28	17.78
Mean absolute deviation	53.71	24.05	71.48	71.94	30.23	8.40	3.57	1.61	0.93	0.44	9.43	14.89
<b>MT5- Punjabi Bagh (West)</b>												
Minimum	55.41	12	82.73	30.12	37.29	0.22	4.74	9.47	0.95	0.5	7.3	14.26
Maximum	580.43	229.6	669.16	381.7	140.63	99.07	27.9	44.89	4.94	6.36	123	113.22
Range	525.02	217.6	586.43	351.58	103.34	98.85	23.2	35.42	3.99	5.86	115.7	98.96
1st Quartile	115.98	59.87	208.52	132.36	59.2	35.5	8.96	17.99	1.93	0.78	32.99	53.93
Median	147.18	76.28	265.83	185.67	68.26	51.57	13	23.47	2.58	0.94	44	71.61
3rd Quartile	167.96	106.9	319.89	223.89	83.53	63.22	17.4	29.6	2.98	2.05	59.79	79.21
Mean	167.33	88.16	282.63	187.89	73.63	50.34	13.9	24.94	2.48	1.37	46.71	67.79
Variance (n)	10268.07	1608.75	13481	5535.68	505.86	425.84	34.1	77.24	0.62	0.79	423.9	364.32
Standard deviation (n)	101.33	40.11	116.11	74.4	22.49	20.64	5.83	8.79	0.79	0.89	20.59	19.09
Mean absolute deviation	59.77	31.28	82.35	57.7	17.51	16.38	4.86	7.3	0.64	0.69	15.85	15.81

Note: Jan-Feb 2021 (P1) and March-20 May (P2)

**Table S3.** Status of weather variables during Jan-Feb 2021(P1) and March-20 May 2021(P2) in Delhi

Statistics	Temperature °C		Humidity (%)		Wind speed (ms <sup>-1</sup> )	
	59 (P1)	81 (P2)	59 (P1)	81 (P2)	59 (P1)	81 (P2)
No. of observations	59 (P1)	81 (P2)	59 (P1)	81 (P2)	59 (P1)	81 (P2)
Minimum	13.87	21.79	47.09	29.78	0.51	0.61
Maximum	24.44	32.59	88.06	93.27	3.17	2.07
Range	10.57	10.80	40.97	63.50	2.66	1.46
1st Quartile	15.69	25.76	67.90	37.43	0.65	0.89
Median	17.63	27.74	73.04	45.96	0.92	1.05
3rd Quartile	20.08	29.54	81.04	51.68	1.61	1.27
Mean	17.99	27.54	73.52	45.30	1.14	1.11
Variance (n)	7.84	6.99	83.82	110.54	0.38	0.11
Standard deviation (n)	2.80	2.64	9.16	10.51	0.62	0.33
Mean absolute deviation	2.37	2.20	7.47	7.80	0.51	0.26

Note: Jan-Feb 2021 (P1) and March-20 May (P2)